

Exponent Review

Simplify. Assume that no variable equals 0. Write with positive exponents.

1. $c^{12} \cdot c^{-4} \cdot c^6$

2. $\frac{b^8}{b^2}$

3. $(a^4)^5$

4. $\frac{x^{-2}y}{x^4y^{-1}}$

5. $\left(\frac{a^2b}{a^{-3}b^2}\right)^{-1}$

6. $\left(\frac{x^2y}{xy^3}\right)^2$

7. $(-5a^2b^3)^2(-abc)^2$

8. $4j(-j^{-2}k^2)(-j^3k^{-7})$

9. $\frac{2mn^2(3m^2n)^2}{12m^3n^4}$

10. $\frac{(-5a^2b^3)^2(-abc)^2}{abc^{-3}}$